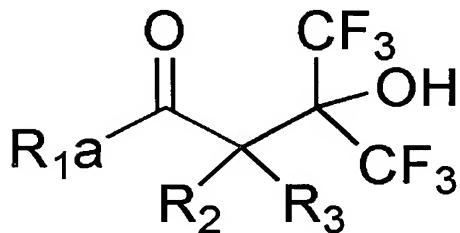


ABSTRACT

The present invention relates to, for example, a fluorine-containing cyclic compound represented by the following general formula (1).

5 [Chemical Formula 47]



(1)

In the general formula (1), $\text{R}_{1\text{a}}$ is a $\text{C}_1\text{-}\text{C}_{25}$ cyclic alkyl group, cyclic alkenyl group or cyclic alkynyl group; each of R_2 and R_3 is independently a hydrogen atom, a halogen atom, or a $\text{C}_1\text{-}\text{C}_{25}$ straight-chain, branched or cyclic alkyl group; and each of $\text{R}_{1\text{a}}$, R_2 and R_3 may contain fluorine atom, oxygen atom, sulfur atom, nitrogen atom or an atomic group containing a carbon-carbon double bond.